

Technical Leaflet

WorléePol 1181/09

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W'Pol 1181/09 is a saturated, low viscous aliphatic polyester resins for the modification of solvent based and aqueous systems showing high elasticity, surface hardness, chemical and UV resistance.

Technical Data:

Viscosity, Rheometer, 25 °C, C 35/1°, 100 s ⁻¹	1,500 - 3,000 mPa·s
OH number (mg KOH/ g), DIN EN ISO 4629	330 ± 20
Hydroxyl content	10.0 % ± 0.6
Acid value (mg KOH/ g), DIN EN ISO 3682	< 2
Water content, DIN 51777, part 1	< 0.1 %
Colour, Gardner, DIN ISO 4630	max. 1
Density, 20 °C, DIN EN ISO 2811-1	approx.1.1 g/cm ³
Delivery form	solvent free

Application and Properties:

Due to its wide compatibility W'Pol 1181/09 can be used in various systems. Normally this polyester resin is used as a modifying component for high quality aqueous and solvent based isocyanate- and amino crosslinking coatings. In corresponding combinations the use of W'Pol 1181/09 improves the flexibility considerably. Often adhesion and gloss are increased at the same time. Very good chemical and mechanical resistance properties are achieved due to the high OH-content which result in a high crosslinking compactness. In aqueous 2 component PUR systems W'Pol 1181/09 is often combined with polyurethane dispersions which improves the quality considerably even regarding chemical and mechanical resistance.

The recommended addition rate is between 2 - 8% calculated on total formulation.

Handling and Storage:

W'Pol 1181/09 is sensitive to moisture and should therefore always be stored in sealed containers. When stored under proper conditions the product has a shelf life of min. six months from date of delivery.